

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION RC-292

Effective July 1, 2011

*The following product has been evaluated for compliance with the wind loads specified in the **International Residential Code (IRC)** and the **International Building Code (IBC)**. This product shall be subject to reevaluation in **June 2015**.*

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

Quadra Loc Plus Minimum 26 gauge Metal Panels, manufactured by

BCI Metals
101 Leaning Tree Road
Fort Gibson, OK 74434
Telephone: (800) 766-5793

will be accepted for use in areas along the Texas Gulf Coast when installed in accordance with the manufacturer's installation instructions and this product evaluation.

PRODUCT DESCRIPTION

Quadra Loc Plus Metal Panels are minimum 26 gauge aluminum-zinc alloy coated steel with a Galvalume or painted finish. The nominal panel width is 3'-0" and covers 36". Five major ribs are 3/4" high and are spaced approximately 9" on center. This is a through fastened panel, with minimum yield strength of 80,000 ksi.

LIMITATIONS

Roof Framing: The metal roofing panels shall be installed over open wood purlin framing, minimum 2 x 4 Southern Pine, No. 3 grade lumber.

New Roof Framing Attachment: The roof framing shall meet or exceed the uplift requirements of the International Residential Code or International Building Code and shall be installed as required for resistance to wind loads.

Design Wind Pressures: The design pressure uplift load resistance shall be as specified in Table 1.

Roof Slope: The metal roofing panels may be installed on roofs with a roof slope as low as 3:12.

Installation Over an Existing Roof Covering: Not permitted.

Table 1

Attachment of minimum 26 gauge metal roofing panels to wood purlins

Design Wind Pressure	Purlins	Attachment of Panel to Wood Purlins
-105.5 psf	minimum 2 x 4 Southern Pine; 2'-0" on center	Fasteners @ 9 inches o.c.

INSTALLATION INSTRUCTIONS

General: The metal roofing panels shall be installed in accordance with the manufacturer's recommended installation instructions and this evaluation report.

Wood Purlins: The minimum thickness of the wood purlin members and the maximum spacing of the purlins shall be as specified in Table 1.

Attachment of Metal Roof Panels to the Steel Purlins: The metal roofing panels shall be secured to the wood purlins with No.9-15 (15 threads per inch) x 1 ½" long Woodgrip hex head self-drilling screws with washers across the panel at the interior supports.

Panel Side Laps: The panels are stitched together with minimum ¼"-14 x 7/8" long hex head self-drilling screws with washers at 12" o.c.

Panel Ends and End Laps to the Wood Purlins: Minimum No.9-15 x 1 ½" long Woodgrip hex head self-drilling screws with washers. A line of fasteners in a 5"-4"-5" o.c across the panel width.

Trims, Closures, and Accessories: Components, such as the eave trim, rake trim, ridge trim, hip trim, and valley trim shall be installed as required by the manufacturer.

Note: The manufacturer's installation instructions shall be available on the job site during the installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC), the International Building Code (IBC), and the Texas Revisions.